



SEQUENCE LISTING

<110> Ish-Horowicz, David
Henrique , Domingos Manuel Pinto
Lewis, Julian Hart
Artavanis Tsakonas, Spyridon
Gray, Grace

<120> ANTIBODIES TO VERTEBRATE DELTA PROTEINS
AND FRAGMENTS

<130> 7326-122-999

<140> 09/783,931

<141> 2001-02-15

<150> 08/981,392

<151> 1997-12-22

<150> PCT/US96/11178

<151> 1996-06-28

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<223> Chick Delta (C-Delta-1) gene

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 <213> mouse

<220>
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 <212> PRT
 <213> Xenopus

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Val Asn Lys Lys Gly Leu Leu Gly Asn Met Asn Cys Cys Arg Pro Gly
          35          40          45
Ser Leu Ala Ser Leu Gln Arg Cys Glu Cys Lys Thr Phe Phe Arg Ile
          50          55          60
Cys Leu Lys His Tyr Gln Ser Asn Val Ser Pro Glu Pro Pro Cys Thr
65          70          75          80
Tyr Gly Gly Ala Val Thr Pro Val Leu Gly Thr Asn Ser Phe Val Val
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Pro Glu Ser Ser Asn Ala Asp Pro Thr Phe Ser Asn Pro Ile Arg Phe
          100          105          110
Pro Phe Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala
          115          120          125
Ile His Ala Asp Ser Ala Asp Asp Leu Asn Thr Glu Asn Pro Glu Arg
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Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Gln
145          150          155          160
Trp Ser Gln Asp Leu His Ser Ser Asp Arg Thr Glu Leu Lys Tyr Ser
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Tyr Arg Phe Val Cys Asp Glu Tyr Tyr Tyr Gly Glu Gly Cys Ser Asp
          180          185          190
Tyr Cys Arg Pro Arg Asp Asp Ala Phe Gly His Phe Ser Cys Gly Glu
          195          200          205
Lys Gly Glu Lys Leu Cys Asn Pro Gly Trp Lys Gly Leu Tyr Cys Thr
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Glu Pro Ile Cys Leu Pro Gly Cys Asp Glu His His Gly Tyr Cys Asp
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Lys Pro Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys

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Ala	Asn	Gly	Ala	Arg	Cys	Glu	Asp	Leu	Gly	Asn	Ser	Tyr	Ile	Cys	Gln			
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Cys	Gln	Glu	Gly	Phe	Ser	Gly	Arg	Asn	Cys	Asp	Asp	Asn	Leu	Asp	Asp			
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Cys	Thr	Ser	Phe	Pro	Cys	Gln	Asn	Gly	Gly	Thr	Cys	Gln	Asp	Gly	Ile			
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Ser	Met	Pro	Ile	Thr	Lys	Cys	Glu	His	Asn	Pro	Cys	His	Asn	Gly	Ala			
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Val	Val	Asp	Leu	Thr	Glu	Lys	Tyr	Thr	Glu	Gly	Gln	Ser	Gly	Gln	Phe			
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Pro	Trp	Ile	Ala	Val	Cys	Ala	Gly	Ile	Val	Leu	Val	Leu	Met	Leu	Leu			
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Arg	Pro	Asp	Ser	Ala	Tyr	Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln	Ser			
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 <213> Drosophila

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 Glu Ser Asp Gly Ala Thr Gly Lys Cys Leu Gly Ser Cys Lys Thr Arg
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 Phe Arg Leu Cys Leu Lys His Tyr Gln Ala Thr Ile Asp Thr Thr Ser
 65 70 75 80
 Gln Cys Thr Tyr Gly Asp Val Ile Thr Pro Ile Leu Gly Glu Asn Ser
 85 90 95
 Val Asn Leu Thr Asp Ala Gln Arg Phe Gln Asn Lys Gly Phe Thr Asn
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 Pro Ile Gln Phe Pro Phe Ser Phe Ser Trp Pro Gly Thr Phe Ser Leu
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 Ile Val Glu Ala Trp His Asp Thr Asn Asn Ser Gly Asn Ala Arg Thr
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 Asn Lys Leu Leu Ile Gln Arg Leu Leu Val Gln Gln Val Leu Glu Val
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 Ser Ser Glu Trp Lys Thr Asn Lys Ser Glu Ser Gln Tyr Thr Ser Leu
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 Glu Tyr Asp Phe Arg Val Thr Cys Asp Leu Asn Tyr Tyr Gly Ser Gly
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 Cys Ala Lys Phe Cys Arg Pro Arg Asp Asp Ser Phe Gly His Ser Thr
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 Cys Ser Glu Thr Gly Glu Ile Ile Cys Leu Thr Gly Trp Gln Gly Asp
 210 215 220
 Tyr Cys His Ile Pro Lys Cys Ala Lys Gly Cys Glu His Gly His Cys
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 Asp Lys Pro Asn Gln Cys Val Cys Gln Leu Gly Trp Lys Gly Ala Leu
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 260 265 270
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 Ala Asp Val Asn Pro Cys Gln Asn Gly Gly Thr Cys Ile Asp Glu Pro
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Arg	Ala	Lys	Ser	Gln	Lys	Gln	Leu	Asn	Thr	Asp	Pro	Thr	Leu	Met	His		
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 <213> Drosophila

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 <212> DNA
 <213> mouse

<220>
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 <223> Mouse Delta (M-Delta-1) gene

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Val	Phe	Glu	Leu	Lys	Leu	Gln	Glu	Phe	Val	Asn	Lys	Lys	Gly	Leu	Leu	
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Gly	Asn	Arg	Asn	Cys	Cys	Arg	Gly	Gly	Ser	Gly	Pro	Pro	Cys	Ala	Cys	
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Arg	Thr	Phe	Phe	Arg	Val	Cys	Leu	Lys	His	Tyr	Gln	Ala	Ser	Val	Ser	
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Thr	Glu	Asn	Pro	Glu	Arg	Leu	Ile	Ser	Arg	Leu	Thr	Thr	Gln	Arg	His	
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Leu	Thr	Val	Gly	Glu	Glu	Trp	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg	
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aca	gac	ctc	cgg	tac	tct	tac	cgg	ttt	gtg	tgt	gac	gag	cac	tac	tac	582
Thr	Asp	Leu	Arg	Tyr	Ser	Tyr	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	
	170					175					180					
gga	gaa	ggc	tgc	tct	gtg	ttc	tgc	cga	cct	cgg	gat	gac	gcc	ttt	ggc	630
Gly	Glu	Gly	Cys	Ser	Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Ala	Phe	Gly	
185				190					195					200		
cac	ttc	acc	tgc	ggg	gac	aga	ggg	gag	aag	atg	tgc	gac	cct	ggc	tgg	678
His	Phe	Thr	Cys	Gly	Asp	Arg	Gly	Glu	Lys	Met	Cys	Asp	Pro	Gly	Trp	
			205					210						215		
aaa	ggc	cag	tac	tgc	act	gac	cca	atc	tgt	ctg	cca	ggg	tgt	gat	gac	726
Lys	Gly	Gln	Tyr	Cys	Thr	Asp	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Asp	
			220					225					230			
caa	cat	gga	tac	tgt	gac	aaa	cca	ggg	gag	tgc	aag	tgc	aga	gtt	ggc	774
Gln	His	Gly	Tyr	Cys	Asp	Lys	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	
		235					240					245				

tgg	cag	ggc	cgc	tac	tgc	gat	gag	tgc	atc	cga	tac	cca	ggg	tgt	gtc	822
Trp	Gln	Gly	Arg	Tyr	Cys	Asp	Glu	Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Val	
	250					255					260					
cat	ggc	acc	tgc	cag	caa	ccc	tgg	cag	tgt	aac	tgc	cag	gaa	ggc	tgg	870
His	Gly	Thr	Cys	Gln	Gln	Pro	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	
	265				270					275					280	
ggg	ggc	ctt	ttc	tgc	aac	caa	gac	ctg	aac	tac	tgt	act	cac	cat	aag	918
Gly	Gly	Leu	Phe	Cys	Asn	Gln	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	
				285					290					295		
ccg	tgc	agg	aat	gga	gcc	acc	tgc	acc	aac	acg	ggc	cag	ggg	agc	tac	966
Pro	Cys	Arg	Asn	Gly	Ala	Thr	Cys	Thr	Asn	Thr	Gly	Gln	Gly	Ser	Tyr	
			300					305					310			
aca	tgt	tcc	tgc	cga	cct	ggg	tat	aca	ggt	gcc	aac	tgt	gag	ctg	gaa	1014
Thr	Cys	Ser	Cys	Arg	Pro	Gly	Tyr	Thr	Gly	Ala	Asn	Cys	Glu	Leu	Glu	
		315					320					325				
gta	gat	gag	tgt	gct	cct	agc	ccc	tgc	aag	aac	gga	gcg	agc	tgc	acg	1062
Val	Asp	Glu	Cys	Ala	Pro	Ser	Pro	Cys	Lys	Asn	Gly	Ala	Ser	Cys	Thr	
	330					335					340					
gac	ctt	gag	gac	agc	ttc	tct	tgc	acc	tgc	cct	ccc	ggc	ttc	tat	ggc	1110
Asp	Leu	Glu	Asp	Ser	Phe	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Phe	Tyr	Gly	
				350						355					360	
aag	gtc	tgt	gag	ctg	agc	gcc	atg	acc	tgt	gca	gat	ggc	cct	tgc	ttc	1158
Lys	Val	Cys	Glu	Leu	Ser	Ala	Met	Thr	Cys	Ala	Asp	Gly	Pro	Cys	Phe	
				365					370					375		
aat	gga	gga	cga	tgt	tca	gat	aac	cct	gac	gga	ggc	tac	acc	tgc	cat	1206
Asn	Gly	Gly	Arg	Cys	Ser	Asp	Asn	Pro	Asp	Gly	Gly	Tyr	Thr	Cys	His	
			380					385					390			
tgc	ccc	ttg	ggc	ttc	tct	ggc	ttc	aac	tgt	gag	aag	aag	atg	gat	ctc	1254
Cys	Pro	Leu	Gly	Phe	Ser	Gly	Phe	Asn	Cys	Glu	Lys	Lys	Met	Asp	Leu	
		395					400					405				
tgc	ggc	tct	tcc	cct	tgt	tct	aac	ggt	gcc	aag	tgt	gtg	gac	ctc	ggc	1302
Cys	Gly	Ser	Ser	Pro	Cys	Ser	Asn	Gly	Ala	Lys	Cys	Val	Asp	Leu	Gly	
	410					415					420					
aac	tct	tac	ctg	tgc	cgg	tgc	cag	gct	ggc	ttc	tcc	ggg	agg	tac	tgc	1350
Asn	Ser	Tyr	Leu	Cys	Arg	Cys	Gln	Ala	Gly	Phe	Ser	Gly	Arg	Tyr	Cys	
	425				430					435					440	
gag	gac	aat	gtg	gat	gac	tgt	gcc	tcc	tcc	ccg	tgt	gca	aat	ggg	ggc	1398
Glu	Asp	Asn	Val	Asp	Asp	Cys	Ala	Ser	Ser	Pro	Cys	Ala	Asn	Gly	Gly	
				445					450					455		
acc	tgc	cgg	gac	agt	gtg	aac	gac	ttc	tcc	tgt	acc	tgc	cca	cct	ggc	1446
Thr	Cys	Arg	Asp	Ser	Val	Asn	Asp	Phe	Ser	Cys	Thr	Cys	Pro	Pro	Gly	
			460					465					470			
tac	acg	ggc	aag	aac	tgc	agc	gcc	cct	gtc	agc	agg	tgt	gag	cat	gca	1494
Tyr	Thr	Gly	Lys	Asn	Cys	Ser	Ala	Pro	Val	Ser	Arg	Cys	Glu	His	Ala	
		475					480					485				

ccc	tgc	cat	aat	ggg	gcc	acc	tgc	cac	cag	agg	ggc	cag	cgc	tac	atg	1542
Pro	Cys	His	Asn	Gly	Ala	Thr	Cys	His	Gln	Arg	Gly	Gln	Arg	Tyr	Met	
	490					495					500					
tgt	gag	tgc	gcc	cag	ggc	tat	ggc	ggc	ccc	aac	tgc	cag	ttt	ctg	ctc	1590
Cys	Glu	Cys	Ala	Gln	Gly	Tyr	Gly	Gly	Pro	Asn	Cys	Gln	Phe	Leu	Leu	
505					510					515					520	
cct	gag	cca	cca	cca	ggg	ccc	atg	gtg	gtg	gac	ctc	agt	gag	agg	cat	1638
Pro	Glu	Pro	Pro	Pro	Gly	Pro	Met	Val	Val	Asp	Leu	Ser	Glu	Arg	His	
				525					530					535		
atg	gag	agc	cag	ggc	ggg	ccc	ttc	ccc	tgg	gtg	gcc	gtg	tgt	gcc	ggg	1686
Met	Glu	Ser	Gln	Gly	Gly	Pro	Phe	Pro	Trp	Val	Ala	Val	Cys	Ala	Gly	
			540					545					550			
gtg	gtg	ctt	gtc	ctc	ctg	ctg	ctg	ctg	ggc	tgt	gct	gct	gtg	gtg	gtc	1734
Val	Val	Leu	Val	Leu	Leu	Leu	Leu	Leu	Gly	Cys	Ala	Ala	Val	Val	Val	
		555					560					565				
tgc	gtc	cgg	ctg	aag	cta	cag	aaa	cac	cag	cct	cca	cct	gaa	ccc	tgt	1782
Cys	Val	Arg	Leu	Lys	Leu	Gln	Lys	His	Gln	Pro	Pro	Pro	Glu	Pro	Cys	
	570					575					580					
ggg	gga	gag	aca	gaa	acc	atg	aac	aac	cta	gcc	aat	tgc	cag	cgc	gag	1830
Gly	Gly	Glu	Thr	Glu	Thr	Met	Asn	Asn	Leu	Ala	Asn	Cys	Gln	Arg	Glu	
585					590					595					600	
aag	gac	gtt	tct	gtt	agc	atc	att	ggg	gct	acc	cag	atc	aag	aac	acc	1878
Lys	Asp	Val	Ser	Val	Ser	Ile	Ile	Gly	Ala	Thr	Gln	Ile	Lys	Asn	Thr	
				605					610					615		
aac	aag	aag	gcg	gac	ttt	cac	ggg	gac	cat	gga	gcc	gag	aag	agc	agc	1926
Asn	Lys	Lys	Ala	Asp	Phe	His	Gly	Asp	His	Gly	Ala	Glu	Lys	Ser	Ser	
			620					625					630			
ttt	aag	gtc	cga	tac	ccc	act	gtg	gac	tat	aac	ctc	gtt	cga	gac	ctc	1974
Phe	Lys	Val	Arg	Tyr	Pro	Thr	Val	Asp	Tyr	Asn	Leu	Val	Arg	Asp	Leu	
		635					640					645				
aag	gga	gat	gaa	gcc	acg	gtc	agg	gat	aca	cac	agc	aaa	cgt	gac	acc	2022
Lys	Gly	Asp	Glu	Ala	Thr	Val	Arg	Asp	Thr	His	Ser	Lys	Arg	Asp	Thr	
	650					655					660					
aag	tgc	cag	tca	cag	agt	ctg	cag	gag	aag	aga	aga	tcg	ccc	caa	cac	2070
Lys	Cys	Gln	Ser	Gln	Ser	Leu	Gln	Glu	Lys	Arg	Arg	Ser	Pro	Gln	His	
665					670					675					680	
tta	ggg	gtg	ggg	aga	ttc	ctg	aca	gaa	aac	agg	cca	gag	tct	gtc	tac	2118
Leu	Gly	Val	Gly	Arg	Phe	Leu	Thr	Glu	Asn	Arg	Pro	Glu	Ser	Val	Tyr	
				685					690					695		
tct	act	tca	aag	gac	acc	aag	tac	cag	tcg	gtg	tat	gtt	ctg	tct	gca	2166
Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln	Ser	Val	Tyr	Val	Leu	Ser	Ala	
			700					705					710			
gaa	aag	gat	gag	tgt	gtt	ata	gcg	act	gag	gtg	taagatggaa	gcgatgtggc	2219			
Glu	Lys	Asp	Glu	Cys	Val	Ile	Ala	Thr	Glu	Val						
		715					720									
aaaattccca tttctcttaa ataaaattcc aaggatatag ccccgatgaa tgctgctgag																2279

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agaggaaggg agaggaaacc cagggactgc tgctgagaac caggttcagg cgaacgtggg 2339
tctctcagag ttagcagagg cgcccgacac tgccagccta ggctttggct gccgctggac 2399
tgcctgctgg ttgttcccat tgcactatgg acagttgctt tgaagagtat atatttaaata 2459
ggacgagtga cttgattcat ataggaagca cgcactgccc acacgtctat cttggattac 2519
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<210> 12
<211> 722
<212> PRT
<213> mouse

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<400> 12
Met Gly Arg Arg Ser Ala Leu Ala Leu Ala Val Val Ser Ala Leu Leu
 1          5          10          15
Cys Gln Val Trp Ser Ser Gly Val Phe Glu Leu Lys Leu Gln Glu Phe
          20          25          30
Val Asn Lys Lys Gly Leu Leu Gly Asn Arg Asn Cys Cys Arg Gly Gly
          35          40          45
Ser Gly Pro Pro Cys Ala Cys Arg Thr Phe Phe Arg Val Cys Leu Lys
          50          55          60
His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly Ser
65          70          75          80
Ala Val Thr Pro Val Leu Gly Val Asp Ser Phe Ser Leu Pro Asp Gly
          85          90          95
Ala Gly Ile Asp Pro Ala Phe Ser Asn Pro Ile Arg Phe Pro Phe Gly
          100          105          110
Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His Thr
          115          120          125
Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile Ser
          130          135          140
Arg Leu Thr Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser Gln
145          150          155          160
Asp Leu His Ser Ser Gly Arg Thr Asp Leu Arg Tyr Ser Tyr Arg Phe
          165          170          175
Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys Arg
          180          185          190
Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Asp Arg Gly Glu
          195          200          205
Lys Met Cys Asp Pro Gly Trp Lys Gly Gln Tyr Cys Thr Asp Pro Ile
          210          215          220
Cys Leu Pro Gly Cys Asp Asp Gln His Gly Tyr Cys Asp Lys Pro Gly
225          230          235          240
Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu Cys
          245          250          255
Ile Arg Tyr Pro Gly Cys Val His Gly Thr Cys Gln Gln Pro Trp Gln
          260          265          270
Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn Gln Asp Leu
          275          280          285
Asn Tyr Cys Thr His His Lys Pro Cys Arg Asn Gly Ala Thr Cys Thr
          290          295          300
Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro Gly Tyr Thr
305          310          315          320
Gly Ala Asn Cys Glu Leu Glu Val Asp Glu Cys Ala Pro Ser Pro Cys
          325          330          335
Lys Asn Gly Ala Ser Cys Thr Asp Leu Glu Asp Ser Phe Ser Cys Thr
          340          345          350
Cys Pro Pro Gly Phe Tyr Gly Lys Val Cys Glu Leu Ser Ala Met Thr
          355          360          365
Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ser Asp Asn Pro

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370	375	380
Asp Gly Gly Tyr Thr Cys His Cys Pro Leu Gly Phe Ser Gly Phe Asn		
385	390	395
Cys Glu Lys Lys Met Asp Leu Cys Gly Ser Ser Pro Cys Ser Asn Gly		400
	405	410
Ala Lys Cys Val Asp Leu Gly Asn Ser Tyr Leu Cys Arg Cys Gln Ala		415
	420	425
Gly Phe Ser Gly Arg Tyr Cys Glu Asp Asn Val Asp Asp Cys Ala Ser		430
	435	440
Ser Pro Cys Ala Asn Gly Gly Thr Cys Arg Asp Ser Val Asn Asp Phe		445
	450	455
Ser Cys Thr Cys Pro Pro Gly Tyr Thr Gly Lys Asn Cys Ser Ala Pro		460
465	470	475
Val Ser Arg Cys Glu His Ala Pro Cys His Asn Gly Ala Thr Cys His		480
	485	490
Gln Arg Gly Gln Arg Tyr Met Cys Glu Cys Ala Gln Gly Tyr Gly Gly		495
	500	505
Pro Asn Cys Gln Phe Leu Leu Pro Glu Pro Pro Pro Gly Pro Met Val		510
	515	520
Val Asp Leu Ser Glu Arg His Met Glu Ser Gln Gly Gly Pro Phe Pro		525
	530	535
Trp Val Ala Val Cys Ala Gly Val Val Leu Val Leu Leu Leu Leu Leu		540
545	550	555
Gly Cys Ala Ala Val Val Val Cys Val Arg Leu Lys Leu Gln Lys His		560
	565	570
Gln Pro Pro Pro Glu Pro Cys Gly Gly Glu Thr Glu Thr Met Asn Asn		575
	580	585
Leu Ala Asn Cys Gln Arg Glu Lys Asp Val Ser Val Ser Ile Ile Gly		590
	595	600
Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp		605
	610	615
His Gly Ala Glu Lys Ser Ser Phe Lys Val Arg Tyr Pro Thr Val Asp		620
625	630	635
Tyr Asn Leu Val Arg Asp Leu Lys Gly Asp Glu Ala Thr Val Arg Asp		640
	645	650
Thr His Ser Lys Arg Asp Thr Lys Cys Gln Ser Gln Ser Leu Gln Glu		655
	660	665
Lys Arg Arg Ser Pro Gln His Leu Gly Val Gly Arg Phe Leu Thr Glu		670
	675	680
Asn Arg Pro Glu Ser Val Tyr Ser Thr Ser Lys Asp Thr Lys Tyr Gln		685
	690	695
Ser Val Tyr Val Leu Ser Ala Glu Lys Asp Glu Cys Val Ile Ala Thr		700
705	710	715
Glu Val		720

<210> 13
 <211> 578
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consenses sequence of Chick Delta and Mouse Delta

<400> 13
 Met Gly Arg Leu Leu Ala Ser Ala Leu Leu Cys Val Ser Gly Val Phe
 1 5 10 15
 Glu Leu Lys Leu Gln Glu Phe Val Asn Lys Lys Gly Leu Leu Asn Arg
 20 25 30
 Asn Cys Cys Arg Gly Gly Gly Cys Cys Thr Phe Phe Arg Val Cys Leu

Val Asp Tyr Asn Leu Val Leu Lys Val His Lys Lys Cys Ser Glu Glu
530 535 540
Lys Ala Leu Arg Lys Arg Pro Ser Val Tyr Ser Thr Ser Lys Asp Thr
545 550 555 560
Lys Tyr Gln Ser Val Tyr Val Ser Glu Lys Asp Glu Cys Ile Ala Thr
565 570 575
Glu Val

<210> 14
<211> 525
<212> DNA
<213> Homo sapiens

<400> 14
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ggcyacgtca gatcargaac accaacaaga aggcggactt ymcascgggg gaccasagcg 120
tccgacaaga atggmtttca aggcccgcga ccccgagcgtg gactataact cgtgcaggac 180
ctcaaggggtg acgacaccgc cgtcaggagc tgcacacagca agcgtgacac caagtgccag 240
tccccaggct cctcagggag gagaagggga ccccgaccac actcaggggk tgcgtgctgc 300
gggcccgggt caggaggggg tacctggggg gtgtcttctt ggaaccactg ctccgtttct 360
cttcccaaata gttctcatgc attcattgtg gattttctct attttcttt tagtggagaa 420
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tcggtgtacg tcatatccga ggagaaggac gagtgcgtca tcgca 525

<210> 15
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicted amino acid sequence of humna delta

<220>
<221> VARIANT
<222> 4
<223> Xaa = Any Amino Acid

<400> 15
Tyr Asp Glu Xaa Pro Gly Glu Leu Pro Ala
1 5 10

<210> 16
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicted amino acid sequence of humna delta

<220>
<221> VARIANT
<222> 11, 15, 23, 24, 28
<223> Xaa = Any Amino Acid

<400> 16
Glu Gly His Leu Ser Gln His His Arg Gly Xaa Val Arg Ser Xaa Thr
1 5 10 15
Pro Thr Arg Arg Arg Thr Xaa Xaa Arg Gly Thr Xaa Ala Ser Asp Lys

		20						25			30
Asn	Gly	Phe	Gln	Gly	Pro	Leu	Pro	Gln	Arg	Gly	Leu
		35					40				

<210> 17
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of humna delta

<220>
 <221> VARIANT
 <222> 41
 <223> Xaa = Any Amino Acid

<400> 17
 Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val Arg Thr Ser His
 1 5 10 15
 Ser Lys Arg Asp Thr Lys Cys Gln Ser Pro Gly Ser Ser Gly Arg Arg
 20 25 30
 Arg Gly Pro Arg Pro His Ser Gly Xaa Ala Cys Cys Gly Pro Gly Ser
 35 40 45
 Gly Gly Gly Thr Trp Gly Val Ser Ser Trp His Cys Ser Val Ser Leu
 50 55 60
 Pro Lys Cys Ser His Ala Phe Ile Val Asp Phe Leu Tyr Phe Pro Phe
 65 70 75 80
 Ser Gly Glu Ala Ser Glu Arg Lys Arg Pro Asp Ser Gly Cys Ser Thr
 85 90 95
 Ser Lys Asp Thr Lys Tyr Gln Ser Val Tyr Val Ile Ser Glu Glu Lys
 100 105 110
 Asp Glu Cys Val Ile Ala
 115

<210> 18
 <211> 173
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<220>
 <221> VARIANT
 <222> 34, 35, 39, 44, 96
 <223> Xaa = Any Amino Acid

<400> 18
 Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Val
 1 5 10 15
 Ser Ile Ile Gly Ala Thr Ser Asp Gln Glu His Gln Gln Glu Gly Gly
 20 25 30
 Leu Xaa Xaa Gly Gly Pro Xaa Pro Thr Arg Met Xaa Phe Lys Ala Arg
 35 40 45
 Tyr Pro Ser Val Asp Tyr Asn Ser Cys Arg Thr Ser Arg Val Thr Thr
 50 55 60
 Pro Pro Ser Gly Arg Arg Thr Ala Ser Val Thr Pro Ser Ala Ser Pro
 65 70 75 80

Gln	Ala	Pro	Gln	Gly	Gly	Glu	Gly	Asp	Pro	Asp	His	Thr	Gln	Gly	Xaa
				85				90						95	
Arg	Ala	Ala	Gly	Arg	Ala	Gln	Glu	Gly	Val	Pro	Gly	Gly	Cys	Leu	Pro
			100					105					110		
Gly	Thr	Thr	Ala	Pro	Phe	Leu	Phe	Pro	Asn	Val	Leu	Met	His	Ser	Leu
		115					120					125			
Trp	Ile	Phe	Ser	Ile	Phe	Leu	Leu	Val	Glu	Lys	His	Leu	Lys	Glu	Lys
	130					135					140				
Gly	Arg	Thr	Arg	Ala	Val	Gln	Leu	Gln	Lys	Thr	Pro	Ser	Thr	Ser	Arg
145					150				155						160
Cys	Thr	Ser	Tyr	Pro	Arg	Arg	Arg	Thr	Ser	Ala	Ser	Ser			
				165					170						

<210> 19
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<220>
 <221> VARIANT
 <222> 1, 19, 23, 32, 33, 36, 43
 <223> Xaa = Any Amino Acid

Xaa	Thr	Trp	Arg	Thr	Ala	Ser	Val	Arg	Arg	Thr	Ser	Gln	Ser	Ala	Ser
1				5				10					15		
Ser	Gly	Xaa	Arg	Gln	Ile	Xaa	Asn	Thr	Asn	Lys	Lys	Ala	Asp	Phe	Xaa
			20				25					30			
Xaa	Gly	Asp	Xaa	Ser	Val	Arg	Gln	Glu	Trp	Xaa	Ser	Arg	Pro	Ala	Thr
		35				40					45				
Pro	Ala	Trp	Thr	Ile	Thr	Arg	Ala	Gly	Pro	Gln	Gly				
	50					55					60				

<210> 20
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<400> 20
 Arg His Arg Arg Gln Asp Val Ala Gln Gln Ala
 1 5 10

<210> 21
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<400> 21
 His Gln Val Pro Val Pro Arg Leu Leu Arg Glu Glu Lys Gly Thr Pro

1				5					10					15		
Thr	Thr	Leu	Arg	Gly	Cys	Val	Leu	Arg	Ala	Gly	Leu	Arg	Arg	Gly	Tyr	
			20					25					30			
Leu	Gly	Gly	Val	Phe	Leu	Glu	Pro	Leu	Leu	Arg	Phe	Ser	Ser	Gln	Met	
		35					40					45				
Phe	Ser	Cys	Ile	His	Cys	Gly	Phe	Ser	Leu	Phe	Ser	Phe				
	50					55					60					

<210> 22
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<400> 22																
Lys	Lys	Lys	Ala	Gly	Leu	Gly	Leu	Phe	Asn	Phe	Lys	Lys	Arg	His	Gln	
1				5				10					15			
Val	Pro	Val	Gly	Val	Arg	His	Ile	Arg	Gly	Glu	Gly	Arg	Val	Arg	His	
			20					25					30			

Arg

<210> 23
 <211> 175
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<220>
 <221> VARIANT
 <222> 25, 34, 35, 38, 97
 <223> Xaa = Any Amino Acid

<400> 23																
Thr	Met	Asn	Asn	Leu	Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Ile	Ser	Val	
1				5				10					15			
Ser	Ile	Ile	Gly	Ala	Thr	Gly	Ile	Xaa	Asn	Thr	Asn	Lys	Lys	Ala	Asp	
			20					25					30			
Phe	Xaa	Xaa	Gly	Asp	Xaa	Ser	Ser	Asp	Lys	Asn	Gly	Phe	Gln	Lys	Ala	
		35				40						45				
Arg	Tyr	Pro	Ser	Val	Asp	Tyr	Asn	Leu	Val	Gln	Asp	Leu	Lys	Gly	Asp	
	50					55					60					
Asp	Thr	Ala	Val	Arg	Thr	Ser	His	Ser	Lys	Arg	Asp	Thr	Lys	Cys	Gln	
65				70					75					80		
Ser	Pro	Gly	Ser	Ser	Gly	Arg	Arg	Arg	Gly	Pro	Arg	Pro	His	Ser	Gly	
			85						90				95			
Xaa	Ala	Cys	Cys	Gly	Pro	Gly	Ser	Gly	Gly	Gly	Thr	Trp	Gly	Val	Ser	
		100					105						110			
Ser	Trp	Asn	His	Cys	Ser	Val	Ser	Leu	Pro	Lys	Cys	Ser	His	Ala	Phe	
		115					120					125				
Ile	Val	Asp	Phe	Leu	Tyr	Phe	Pro	Phe	Ser	Gly	Glu	Ala	Ser	Glu	Arg	
	130					135					140					
Lys	Arg	Pro	Asp	Ser	Gly	Cys	Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln	
145				150						155					160	
Ser	Val	Tyr	Val	Ile	Ser	Glu	Glu	Lys	Asp	Glu	Cys	Val	Ile	Ala		

<210> 24
 <211> 2899
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Consenses sequence of mouse delta and human delta

<220>
 <221> misc_feature
 <222> 854, 973, 984, 1582, 1787, 1819, 1864, 1916, 1951, 2033,
 2152, 2156, 2171, 2183, 2194, 2212, 2220, 2226, 2230, 2244,
 2245, 2264, 2265, 2266, 2287
 <223> n = A,T,C or G

<400> 24
 gtccagcggg accatggggc gtcggagcgc gctacccctt gccgtgggtct ctgccctgct 60
 gtgccagggtc tggagctccg gcgtatttga gctgaagctg caggagttcg tcaacaagaa 120
 ggggctgctg gggaaccgca actgctgccg cgggggctct ggcccgcctt gcgcctgcag 180
 gaccttcttt cgcgtatgcc tcaaccacta ccaggccagc gtgtcaccgg agccaccctg 240
 cacctacggc agtgctgtca cgccagtgtt ggggtctcgac tccttcagcc tgcctsatkg 300
 sgyasgsryc smccycgagg yckwcrgyaw csmyaagyyy gatatcgmmmy tycggcttca 360
 cctggccrrg yaccttctct ctgatytatt aagcyctcca yacagaytct ccygatgacc 420
 tcgcaacaga aaaccacaga agactcatca gccgcctgrc cacycagagg cacctsackg 480
 tgggmarga rtggteycag gacctkcaca gyagcggccg cactgacctc mrgtactcyt 540
 accgsttygt gtgtgacgar cactactacg gagarggytg ctctgtkttc tgccgwcyc 600
 gggaygaygc cttyggccac ttcacctgyg gggasmgwgg ggagaarrtg tgcraacctg 660
 gctggaaagg scmgtactgc acwgasccra tctgyctgcc wggrrtgtat gascarcatg 720
 gatwytgtga caaaccaggg gartgcaagt gcagagtkgg ctggcagggc cgstactgyg 780
 atgagtgyat ccgytaycca ggytgtctcc atggcacctg ccagcarccc tggcagtgya 840
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 ataagccstg cargaatgga gccacctgca acmaacacgg gccaggggga gctacacwtg 960
 ktcyttggcc ggncykgggg ayanagggtg ccamctgyga agcttgggra ktrgaygagt 1020
 tggtgmyccy agcccytggy aagaacggag sgagctksac ggaycttcgg agracagctw 1080
 ctcytgaycc tgccwcccg gcttctaygg caarrtctgt garytgagyg ccatgacctg 1140
 tgcrgayggc ccttgcttya ayggrggwgc rtgytcagay arcccygayg gaggstacas 1200
 ctgccrytgc ccktggggt wctcygggtt caactgtgag aagaaratkg ayywctgcr 1260
 ctcttcmccy tgttctaayg gtgccaagt tgtggacctc ggyraykcyt acctgtgccg 1320
 stgccaggcy ggcttctcsg ggaggyactg ygasgacaay gtggaygact gygcctcctc 1380
 cccgtgygcm aaygggggca cctgccggga yrgygtgaac gacttgtcct gyacctgcc 1440
 rectggctac acgggcarga actgcagygc cccygycagc aggtgygagc aygcacctg 1500
 ccayaatggg gccacctgcc acsagagggg ccascgctay wtgtgygagt gygcccrrrg 1560
 ctayggsggy cccaactgcc anttyctgct cccygaarcy gmccmccmgg sccaygggtg 1620
 gtggaamctc msykararrm aymtarragr gccrgggsgg gccwteccc tkggtggycg 1680
 tgtgygccgg ggtsrtsctt gtcctcmtgc tgctgctggg ctgtgcygct gtgggtggtct 1740
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 araccatgaa caacctrngc aaytgccagc gygagaagga crtytcwgt yagcatcaty 1860
 gggnyacsca catcaagaac accaacaaga aggcggactt yacggggac cayrgngccr 1920
 asaagaryrg cttyaaggyc cgmtaccmr nkgtggacta taacctcgk crrgacctca 1980
 agggwgayga mrcrcsgtc agggayrcrc acagcaarcg tgacaccaag tgnacgycmc 2040
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 magtcgggtg nygtymktc ygnagragga aggntgastg ygtyataggm rnytgaggtn 2220
 gtaarntgg agcgatgtgg caannttccc atttctcksa aaknnnatc cmmggatata 2280
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 ccaggttcag gcgaagctgg ttctctcaga gttagcagag gcgcccagca ctgccagcct 2400
 aggctttggc tgccgctgga ctgcctgctg gttgttccca ttgcactatg gacagttgct 2460
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cacacgtcta	tcttggatta	ctatgagcca	gtcttttcctt	gaactagaaa	cacaactgcc	2580
tttattgtcc	tttttgatac	tgagatgtgt	tttttttttt	cctagacggg	aaaaagaaaa	2640
cgtgtgttat	ttttttggga	tttgtaaaaa	tattttttcat	gatatctgta	aagcttgagt	2700
attttgtgac	gttcattttt	ttataattta	aatttttggt	aatatgtaca	aaggcacttc	2760
gggtctatgt	gactatatat	ttttgtatat	aaatgtattt	atggaatatt	gtgcaaattgt	2820
tatttgagtt	ttttactgtt	ttgttaaatga	agaaattcat	tttaaaaata	tttttccaaa	2880
ataaatataa	tgaactaca					2899

<210> 25
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> sequence encoded by SEQ ID NO. 93 (degenerated
 oligo)

<400> 25
 Glu Lys Asp Glu Cys Val Ile Ala
 1 5

<210> 26
 <211> 1981
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 559, 678, 689, 1287, 1492, 1524, 1569, 1621, 1656, 1738,
 1857, 1861, 1876, 1888, 1899, 1917, 1925, 1931, 1935, 1942,
 1943, 1952, 1953, 1954, 1968
 <223> n = A,T,C or G

<400> 26	
cattgggtac	gggccccct
cttcacctgg	ccgggcacct
tgacctcgca	acagaaaacc
gacgggtgggc	gaggagtgg
ctcctaccgc	ttcgtgtgtg
tccccgggac	gatgccttcg
ccctggctgg	aaagggccct
gcatggattt	tgtgacaaac
ctgtgacgag	tgtatccgct
gtgcaactgc	caggaaggnt
acaccataag	ccctgcaaga
acttgggtctt	tggccggnct
cgagttgttg	accccagccc
agctactcct	gtacctgccc
acctgtgcgg	acggcccttg
tacagctgcc	gctgccccgt
tgcagctctt	caccctgttc
tgccgctgcc	aggccggctt
tcctccccgt	gcgccaacgg
tgcccgcctg	gctacacggg
ccctgccaca	atggggccac
cgaagctacg	ggggtcccaa
cggtggtgga	aactccccta
ggacgtgtgc	gcgggggtca
ggtctgcgtc	cggctgaggc
gacggagacc	atgaacaacc
ggtatcgata	gggtatcgata
tattgaagct	ctccacacag
catcagccgc	ctggccaccc
gcacagcagc	ggccgcacgg
ctacggagag	ggctgctccg
ctgtggggag	cgtggggaga
gccgatctgc	ctgcctggat
caagtgcaga	gtgggctggc
tctccatggc	acctgccagc
tttctgcaac	caggacctga
ctgcaacaaa	cacggggccag
gggtgccacc	tgcgaagctt
cggagggagc	ttgacggatc
tacggcaaaa	tctgtgaatt
ggtcgggtgct	cagacagccc
ggcttcaact	gtgagaagaa
aagtgtgttg	acctcggtga
cactgtgacg	acaacgtgga
cgggatggcg	tgaacgactt
agtgcccccg	ccagcagggtg
gctatattgtg	cgagtgtgcc
ctgctccccg	aaactgcccc
ggggggccca	tccccttggt
catgctgctg	ctgggctgtg
gccgacccct	gncgggggga
ccagcgtgag	aaggacatct

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catcggggnc acgcagatca agaacaccaa caagaaggcg gacttccacg gggaccacag 1620
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aagcatcttg aaagaaaaag gccggacttc gggcttggtc aactttcaaa agacaancaa 1860
ngtacaagtc ggtgtncgtc atttccgnag gaggaaggnt gactgcgtca taggaantt 1920
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<210> 27
<211> 31
<212> PRT
<213> Artificial Sequence

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<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

```

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<400> 27
His Trp Val Arg Ala Pro Leu Glu Val Asp Gly Ile Asp Lys Leu Asp
 1             5             10             15
Ile Glu Phe Arg Leu His Leu Ala Gly His Leu Leu Ser Asp Tyr
      20             25             30

```

```

<210> 28
<211> 7
<212> PRT
<213> Artificial Sequence

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```

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

```

```

<400> 28
Ser Ser Pro His Arg Phe Ser
 1             5

```

```

<210> 29
<211> 45
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

```

```

<400> 29
Pro Arg Asn Arg Lys Pro Arg Lys Thr His Gln Pro Pro Gly His Pro
 1             5             10             15
Glu Ala Pro Asp Gly Gly Arg Gly Val Val Pro Gly Pro Ala Gln Gln
      20             25             30
Arg Pro His Gly Pro Gln Val Leu Leu Pro Leu Arg Val
      35             40             45

```

```

<210> 30
<211> 49
<212> PRT
<213> Artificial Sequence

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<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 30

Arg	Thr	Leu	Leu	Arg	Arg	Gly	Leu	Leu	Arg	Phe	Pro	Ser	Pro	Gly	Arg
1				5					10					15	
Cys	Leu	Arg	Pro	Leu	His	Leu	Trp	Gly	Ala	Trp	Gly	Glu	Ser	Val	Gln
			20					25					30		
Pro	Trp	Leu	Glu	Arg	Ala	Leu	Leu	His	Arg	Ala	Asp	Leu	Pro	Ala	Trp
		35					40					45			

Met

<210> 31

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 31

Ala	Ala	Trp	Ile	Leu
1			5	

<210> 32

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 32

Gln	Thr	Arg	Gly	Met	Gln	Val	Gln	Ser	Gly	Leu	Ala	Gly	Pro	Val	Leu
1				5					10					15	

<210> 33

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>

<221> VARIANT

<222> 25

<223> Xaa = Any Amino Acid

<400> 33

Arg	Val	Tyr	Pro	Leu	Ser	Arg	Leu	Ser	Pro	Trp	His	Leu	Pro	Ala	Ala
1				5					10					15	

Leu	Ala	Val	Gln	Leu	Pro	Gly	Arg	Xaa	Gly	Gly	Pro	Phe	Leu	Gln	Pro
			20					25					30		
Gly	Pro	Glu	Leu	Leu	His	Thr	Pro								
		35					40								

<210> 34
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 27
 <223> Xaa = Any Amino Acid

Ala	Leu	Gln	Glu	Trp	Ser	His	Leu	Gln	Gln	Thr	Arg	Ala	Arg	Gly	Ser
1				5					10					15	
Tyr	Thr	Trp	Ser	Leu	Ala	Gly	Leu	Gly	Tyr	Xaa	Gly	Cys	His	Leu	Arg
			20					25					30		
Ser	Leu	Gly	Ile	Gly	Arg	Val	Val	Asp	Pro	Ser	Pro	Trp			
		35					40					45			

<210> 35
 <211> 196
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 166, 179
 <223> Xaa = Any Amino Acid

Glu	Arg	Arg	Glu	Leu	Asp	Gly	Ser	Ser	Glu	Asn	Ser	Tyr	Ser	Cys	Thr
1				5					10					15	
Cys	Pro	Pro	Gly	Phe	Tyr	Gly	Lys	Ile	Cys	Glu	Leu	Ser	Ala	Met	Thr
			20					25					30		
Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys	Ser	Asp	Pro	Asp
		35					40					45			
Gly	Gly	Tyr	Ser	Cys	Arg	Cys	Pro	Val	Gly	Tyr	Ser	Gly	Phe	Asn	Cys
	50					55					60				
Glu	Lys	Lys	Ile	Asp	Tyr	Cys	Ser	Ser	Ser	Pro	Cys	Ser	Asn	Gly	Ala
65				70					75					80	
Lys	Cys	Val	Asp	Leu	Gly	Asp	Ala	Tyr	Leu	Cys	Arg	Gly	Gln	Ala	Gly
			85					90					95		
Phe	Ser	Gly	Arg	His	Cys	Asp	Asp	Asn	Val	Asp	Asp	Cys	Ala	Ser	Ser
			100					105					110		
Pro	Cys	Ala	Asn	Gly	Gly	Thr	Cys	Arg	Asp	Gly	Val	Asn	Asp	Phe	Ser
		115					120					125			
Cys	Thr	Cys	Pro	Pro	Gly	Tyr	Thr	Gly	Arg	Asn	Cys	Ser	Ala	Pro	Ala

130		135		140											
Ser	Arg	Cys	Glu	His	Ala	Pro	Cys	His	Asn	Gly	Ala	Thr	Cys	His	Glu
145					150					155					160
Arg	Gly	His	Arg	Tyr	Xaa	Cys	Glu	Cys	Ala	Arg	Ser	Tyr	Gly	Gly	Pro
				165					170						175
Asn	Cys	Xaa	Phe	Leu	Leu	Pro	Glu	Thr	Ala	Pro	Pro	Ala	Pro	Arg	Trp
			180					185					190		
Trp	Lys	Leu	Pro												
			195												

<210> 36
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 51
 <223> Xaa = Any Amino Acid

<400> 36
Lys Asn Leu Lys Gly Pro Gly Gly Ala His Pro Leu Gly Gly Arg Val
1 5 10 15
Arg Arg Gly His Pro Cys Pro His Ala Ala Gly Leu Cys Arg Cys
20 25 30
Gly Gly Leu Arg Pro Ala Glu Ala Ala Glu Ala Pro Ala Pro Ser Arg
35 40 45
Pro Leu Xaa Gly Gly Asp Gly Asp His Glu Gln Pro Gly Gln Leu Pro
50 55 60
Ala
65

<210> 37
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 28, 39
 <223> Xaa = Any Amino Acid

<400> 37
Glu Gly His Leu Ser Gln His His Arg Gly His Ala Asp Gln Glu His
1 5 10 15
Gln Gln Glu Gly Gly Leu Pro Arg Gly Pro Gln Xaa Arg Gln Glu Trp
20 25 30
Leu Gln Gly Pro Leu Pro Xaa Gly Gly Leu
35 40

<210> 38
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 38
 Pro Arg Ala Gly Pro Gln Gly
 1 5

<210> 39
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 39
 Arg His Arg Arg Gln Gly Arg Ala Gln Gln Ala
 1 5 10

<210> 40
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 4, 43, 45, 50, 54
 <223> Xaa = Any Amino Acid

<400> 40
 His Gln Val Xaa Ala Pro Gly Leu Leu Arg Gly Gly Glu Gly Asp Pro
 1 5 10 15
 Arg Pro Thr Leu Arg Gly Trp Arg Lys His Leu Glu Arg Lys Arg Pro
 20 25 30
 Asp Phe Gly Leu Val Gln Leu Ser Lys Asp Xaa Gln Xaa Thr Ser Arg
 35 40 45
 Cys Xaa Ser Phe Pro Xaa Glu Gly
 50 55

<210> 41
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 5, 8
 <223> Xaa = Any Amino Acid

 <400> 41
 Leu Arg His Arg Xaa Leu Arg Xaa
 1 5

 <210> 42
 <211> 13
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

 <220>
 <221> VARIANT
 <222> 1, 4, 5
 <223> Xaa = Any Amino Acid

 <400> 42
 Xaa Trp Lys Xaa Xaa Pro Gly Phe Arg Phe Gln Ser Phe
 1 5 10

 <210> 43
 <211> 276
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

 <220>
 <221> VARIANT
 <222> 226, 230
 <223> Xaa = Any Amino Acid

 <400> 43
 Ile Gly Tyr Gly Pro Pro Ser Arg Ser Thr Val Ser Ile Ser Leu Ile
 1 5 10 15
 Ser Asn Ser Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu
 20 25 30
 Ala Leu His Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu
 35 40 45
 Arg Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu
 50 55 60
 Glu Trp Ser Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr
 65 70 75 80
 Ser Tyr Arg Phe Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser
 85 90 95
 Val Phe Cys Arg Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly
 100 105 110
 Glu Arg Gly Glu Lys Val Cys Asn Pro Gly Trp Lys Gly Pro Tyr Cys
 115 120 125

Thr	Glu	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln	His	Gly	Phe	Cys
130						135					140				
Asp	Lys	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr
145					150					155					160
Cys	Asp	Glu	Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His	Gly	Thr	Cys	Gln
				165					170					175	
Gln	Pro	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys
			180					185					190		
Asn	Gln	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Lys	Asn	Gly
		195					200					205			
Ala	Thr	Cys	Asn	Lys	His	Gly	Pro	Gly	Gly	Ala	Thr	Leu	Gly	Leu	Trp
210						215					220				
Pro	Xaa	Trp	Gly	Thr	Xaa	Gly	Ala	Thr	Cys	Glu	Ala	Trp	Gly	Leu	Asp
225					230					235					240
Glu	Leu	Leu	Thr	Pro	Ala	Leu	Gly	Lys	Asn	Gly	Gly	Ser	Leu	Thr	Asp
				245					250					255	
Leu	Arg	Arg	Thr	Ala	Thr	Pro	Val	Pro	Ala	His	Pro	Ala	Ser	Thr	Ala
			260					265					270		
Lys	Ser	Val	Asn												
		275													

<210> 44
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

Pro	Val	Arg	Thr	Ala	Leu	Ala	Leu	Thr	Gly	Val	Gly	Ala	Gln	Thr	Ala
1				5					10				15		
Pro	Met	Glu	Gly	Thr	Ala	Ala	Ala	Ala	Pro	Trp	Ala	Thr	Pro	Ala	Ser
		20					25					30			
Thr	Val	Arg	Arg	Lys	Leu	Thr	Thr	Ala	Ala	Leu	His	Pro	Val	Leu	Met
		35				40					45				
Val	Pro	Ser	Val	Trp	Thr	Ser	Val	Met	Pro	Thr	Cys	Ala	Ala	Ala	Arg
	50					55				60					
Pro	Ala	Ser	Arg	Gly	Gly	Thr	Val	Thr	Thr	Thr	Trp	Thr	Thr	Ala	Pro
65				70					75						80
Pro	Pro	Arg	Ala	Pro	Thr	Gly	Ala	Pro	Ala	Gly	Met	Ala			
				85					90						

<210> 45
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 55
 <223> Xaa = Any Amino Acid

<400> 45

Thr	Thr	Ser	Pro	Ala	Pro	Ala	Arg	Leu	Ala	Thr	Arg	Ala	Gly	Thr	Ala
1				5					10					15	
Val	Pro	Pro	Pro	Ala	Gly	Ala	Ser	Thr	His	Pro	Ala	Thr	Met	Gly	Pro
			20					25					30		
Pro	Ala	Thr	Arg	Gly	Ala	Thr	Ala	Ile	Cys	Ala	Ser	Val	Pro	Glu	Ala
		35					40					45			
Thr	Gly	Val	Pro	Thr	Ala	Xaa	Ser	Cys	Pro	Lys	Leu	Pro	Pro	Arg	Pro
	50					55					60				
His	Gly	Gly	Gly	Asn	Ser	Pro	Lys	Lys	Thr						
65					70										

<210> 46
 <211> 187
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 47, 58, 73, 101, 128, 167, 168, 181, 187
 <223> Xaa = Any Amino Acid

Lys	Gly	Arg	Gly	Gly	Pro	Ile	Pro	Leu	Val	Asp	Val	Cys	Ala	Gly	Val
1				5					10					15	
Ile	Leu	Val	Leu	Met	Leu	Leu	Leu	Gly	Cys	Ala	Ala	Val	Val	Val	Cys
			20					25					30		
Val	Arg	Leu	Arg	Leu	Gln	Lys	His	Arg	Pro	Pro	Ala	Asp	Pro	Xaa	Arg
		35					40					45			
Gly	Glu	Thr	Glu	Thr	Met	Asn	Asn	Leu	Xaa	Asn	Cys	Gln	Arg	Glu	Lys
	50					55				60					
Asp	Ile	Ser	Val	Ser	Ile	Ile	Gly	Xaa	Thr	Gln	Ile	Lys	Asn	Thr	Asn
65					70				75					80	
Lys	Lys	Ala	Asp	Phe	His	Gly	Asp	His	Ala	Asp	Lys	Asn	Gly	Phe	Lys
			85					90					95		
Ala	Arg	Tyr	Pro	Xaa	Val	Asp	Tyr	Asn	Leu	Val	Gln	Asp	Leu	Lys	Gly
			100					105					110		
Asp	Asp	Thr	Ala	Val	Arg	Asp	Ala	His	Ser	Lys	Arg	Asp	Thr	Lys	Xaa
		115					120					125			
Gln	Pro	Gln	Gly	Ser	Ser	Gly	Glu	Glu	Gly	Thr	Pro	Asp	Pro	His	Ser
	130					135					140				
Gly	Gly	Gly	Gly	Ser	Ile	Leu	Lys	Glu	Lys	Gly	Arg	Thr	Ser	Gly	Leu
145					150					155					160
Phe	Asn	Phe	Gln	Lys	Thr	Xaa	Xaa	Val	Gln	Val	Gly	Val	Arg	His	Phe
			165					170					175		
Arg	Arg	Arg	Lys	Xaa	Asp	Cys	Val	Ile	Gly	Xaa					
			180					185							

<210> 47
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 2, 4, 5, 7, 8, 11, 16
 <223> Xaa = Any Amino Acid

 <400> 47
 Gly Xaa Lys Xaa Xaa Val Xaa Xaa Gly Lys Xaa Ser Pro Asp Ser Xaa
 1 5 10 15
 Phe Lys Val Phe
 20

 <210> 48
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

 <400> 48
 Leu Gly Thr Gly Pro Pro Arg Gly Arg Arg Tyr Arg
 1 5 10

 <210> 49
 <211> 13
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

 <400> 49
 Tyr Arg Ile Pro Ala Ser Pro Gly Arg Ala Pro Ser Leu
 1 5 10

 <210> 50
 <211> 30
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

 <400> 50
 Leu Leu Lys Leu Ser Thr Gln Ile Leu Leu Met Thr Ser Gln Gln Lys
 1 5 10 15
 Thr Gln Lys Asp Ser Ser Ala Ala Trp Pro Pro Arg Gly Thr
 20 25 30

 <210> 51
 <211> 135
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 126
 <223> Xaa = Any Amino Acid

<400> 51
 Arg Trp Ala Arg Ser Gly Pro Arg Thr Cys Thr Ala Ala Ala Arg
 1 5 10 15
 Thr Ser Ser Thr Pro Thr Ala Ser Cys Val Thr Asn Thr Thr Thr Glu
 20 25 30
 Arg Ala Ala Pro Phe Ser Ala Val Pro Gly Thr Met Pro Ser Ala Thr
 35 40 45
 Ser Pro Val Cys Ser Val Gly Arg Lys Cys Ala Thr Leu Ala Gly Lys
 50 55 60
 Gly Pro Thr Ala Gln Ser Arg Ser Ala Cys Leu Asp Val Met Ser Ser
 65 70 75 80
 Met Asp Phe Phe Val Thr Asn Gln Asn Ala Ser Ala Glu Trp Ala Gly
 85 90 95
 Arg Ala Gly Thr Val Thr Ser Val Ser Ala Ile Gln Ala Val Ser Met
 100 105 110
 Ala Pro Ala Ser Ser Pro Gly Ser Ala Thr Ala Arg Lys Xaa Gly Gly
 115 120 125
 Ala Phe Ser Ala Thr Arg Thr
 130 135

<210> 52
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 30, 33
 <223> Xaa = Any Amino Acid

<400> 52
 Thr Thr Ala His Thr Ile Ser Pro Ala Arg Met Glu Pro Pro Ala Thr
 1 5 10 15
 Asn Thr Gly Gln Gly Glu Leu His Leu Val Phe Gly Arg Xaa Gly Val
 20 25 30
 Xaa Arg Val Pro Pro Ala Lys Leu Gly Asp Trp Thr Ser Cys
 35 40 45

<210> 53
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three

possible ORF of human Delta contigs

<400> 53

Pro Gln Pro Leu Val Arg Thr Glu Gln Glu
1 5 10

<210> 54

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 54

Arg Ile Phe Gly Glu Gln Leu Leu Leu Tyr Leu Pro Thr Arg Leu Leu
1 5 10 15
Arg Gln Asn Leu
20

<210> 55

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 55

Ile Glu Cys His Asp Leu Cys Gly Arg Pro Leu Leu
1 5 10

<210> 56

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 56

Arg Gly Ser Val Leu Arg Gln Pro Arg Trp Arg Val Gln Leu Pro Leu
1 5 10 15
Pro Arg Gly Leu Leu Arg Leu Gln Leu
20 25

<210> 57

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 57
 Leu Leu Gln Leu Phe Thr Leu Phe
 1 5

<210> 58
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 58
 Trp Cys Gln Val Cys Gly Pro Arg
 1 5

<210> 59
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 59
 Cys Leu Pro Val Pro Leu Pro Gly Arg Leu Leu Gly Glu Ala Leu
 1 5 10 15

<210> 60
 <211> 131
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 76
 <223> Xaa = Any Amino Acid

<400> 60
 Arg Gln Arg Gly Arg Leu Arg Leu Leu Pro Val Arg Gln Gly His Leu
 1 5 10 15
 Pro Gly Trp Arg Glu Arg Leu Leu Leu His Leu Pro Ala Trp Leu His
 20 25 30
 Gly Gln Glu Leu Gln Cys Pro Arg Gln Gln Val Arg Ala Arg Thr Leu
 35 40 45
 Pro Gln Trp Gly His Leu Pro Arg Glu Gly Pro Pro Leu Phe Val Arg
 50 55 60
 Val Cys Pro Lys Leu Arg Gly Ser Gln Leu Pro Xaa Pro Ala Pro Arg
 65 70 75 80
 Asn Cys Pro Pro Gly Pro Thr Val Val Glu Thr Pro Leu Lys Lys Pro
 85 90 95

Lys Arg Ala Gly Gly Gly Pro Ser Pro Trp Trp Thr Cys Ala Pro Gly
 100 105 110
 Ser Ser Leu Ser Ser Cys Cys Cys Trp Ala Val Pro Leu Trp Trp Ser
 115 120 125
 Ala Ser Gly
 130

<210> 61
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa = Any Amino Acid

<400> 61
 Gly Cys Arg Ser Thr Gly Pro Gln Pro Thr Pro Xaa Gly Gly Arg Arg
 1 5 10 15
 Arg Pro

<210> 62
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 4, 19, 36, 48, 75
 <223> Xaa = Any Amino Acid

<400> 62
 Thr Thr Trp Xaa Thr Ala Ser Val Arg Arg Thr Ser Gln Ser Ala Ser
 1 5 10 15
 Ser Gly Xaa Arg Arg Ser Arg Thr Pro Thr Arg Arg Arg Thr Ser Thr
 20 25 30
 Gly Thr Thr Xaa Pro Thr Arg Met Ala Ser Arg Pro Ala Thr Gln Xaa
 35 40 45
 Trp Thr Ile Thr Ser Cys Arg Thr Ser Arg Val Thr Thr Pro Pro Ser
 50 55 60
 Gly Thr Arg Thr Ala Ser Val Thr Pro Ser Xaa Ser Pro Arg Ala Pro
 65 70 75 80
 Gln Gly Arg Arg Arg Cys Pro Pro Thr His Thr Gln Gly Val Glu Glu
 85 90 95
 Ala Ser

<210> 63

<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 16, 17, 22, 26, 30
 <223> Xaa = Any Amino Acid

<400> 63
 Lys Lys Lys Ala Gly Leu Arg Ala Cys Ser Thr Phe Lys Arg Gln Xaa
 1 5 10 15
 Xaa Tyr Lys Ser Val Xaa Val Ile Ser Xaa Gly Gly Arg Xaa Thr Ala
 20 25 30
 Ser

<210> 64
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 2, 6, 8, 10, 13, 14, 19
 <223> Xaa = Any Amino Acid

<400> 64
 Glu Xaa Glu Val Val Xaa Trp Xaa Leu Xaa Leu Glu Xaa Xaa Pro Arg
 1 5 10 15
 Ile Pro Xaa Ser Lys Phe
 20

<210> 65
 <211> 192
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

<400> 65
 Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His
 1 5 10 15
 Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile
 20 25 30
 Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser
 35 40 45
 Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr Ser Tyr Arg
 50 55 60

Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly	Glu	Gly	Cys	Ser	Val	Phe	Cys
65					70					75					80
Arg	Pro	Arg	Asp	Asp	Ala	Phe	Gly	His	Phe	Thr	Cys	Gly	Glu	Arg	Gly
			85						90					95	
Glu	Lys	Val	Cys	Asn	Pro	Gly	Trp	Lys	Gly	Pro	Tyr	Cys	Thr	Glu	Pro
			100					105					110		
Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln	His	Gly	Phe	Cys	Asp	Lys	Pro
		115					120					125			
Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	Asp	Glu
	130					135					140				
Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His	Gly	Thr	Cys	Gln	Gln	Pro	Trp
145					150					155					160
Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	Gln	Asp
				165				170						175	
Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Lys	Asn	Gly	Ala	Thr	Cys
			180					185					190		

<210> 66
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

<400> 66
 Thr Asn Thr Gly Gln Gly
 1 5

<210> 67
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

<400> 67
 Lys Asn Gly Gly Ser Leu Thr Asp Leu
 1 5

<210> 68
 <211> 157
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

<400> 68
 Glu Asn Ser Tyr Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly Lys Ile
 1 5 10 15
 Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly
 20 25 30
 Gly Arg Cys Ser Asp Ser Pro Asp Gly Gly Tyr Ser Cys Arg Cys Pro

		35					40					45					
Val	Gly	Tyr	Ser	Gly	Phe	Asn	Cys	Glu	Lys	Lys	Ile	Asp	Tyr	Cys	Ser		
	50					55					60						
Ser	Ser	Pro	Cys	Ser	Asn	Gly	Ala	Lys	Cys	Val	Asp	Leu	Gly	Asp	Ala		
65					70					75					80		
Tyr	Leu	Cys	Arg	Cys	Gln	Ala	Gly	Phe	Ser	Gly	Arg	His	Cys	Asp	Asp		
				85					90					95			
Asn	Val	Asp	Asp	Cys	Ala	Ser	Ser	Pro	Cys	Ala	Asn	Gly	Gly	Thr	Cys		
			100					105					110				
Arg	Asp	Gly	Val	Asn	Asp	Phe	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Tyr	Thr		
		115					120					125					
Gly	Arg	Asn	Cys	Ser	Ala	Pro	Ala	Ser	Arg	Cys	Glu	His	Ala	Pro	Cys		
	130					135					140						
His	Asn	Gly	Ala	Thr	Cys	His	Glu	Arg	Gly	His	Arg	Tyr					
145					150					155							

<210> 69
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid sequence

<400> 69
 Cys Glu Cys Ala Arg Ser Tyr Gly Gly Pro Asn Cys
 1 5 10

<210> 70
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid sequence

<400> 70
 Phe Leu Leu Pro Glu
 1 5

<210> 71
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid sequence

<400> 71
 Pro Pro Gly Pro
 1

<210> 72
 <211> 25

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

 <400> 72
 Leu Leu Leu Gly Cys Ala Ala Val Val Val Cys Val Arg Leu Arg Leu
 1 5 10 15
 Gln Lys His Arg Pro Pro Ala Asp Pro
 20 25

 <210> 73
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

 <400> 73
 Arg Gly Glu Thr Glu Thr Met Asn Asn Leu
 1 5 10

 <210> 74
 <211> 14
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

 <400> 74
 Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Ile Ile Gly
 1 5 10

 <210> 75
 <211> 16
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

 <400> 75
 Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp His
 1 5 10 15

 <210> 76
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 76
Ala Asp Lys Asn Gly Phe Lys Ala Arg Tyr Pro
1 5 10

<210> 77
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 77
Val Asp Tyr Asn Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val
1 5 10 15
Arg Asp Ala His Ser Lys Arg Asp Thr Lys
20 25

<210> 78
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 78
Gln Pro Gln Gly Ser Ser Gly Glu Glu Lys Gly Thr Pro
1 5 10

<210> 79
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 79
Pro Thr Leu Arg
1

<210> 80
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 80
Arg Lys Arg Pro
1

<210> 81
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Degenerated oligo as primer

<220>
<221> VARIANT
<222> 6, 12, 18, 21
<223> n = I (Inosine)

<400> 81
ttcggnttya cntggccngg nac

23

<210> 82
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Degenerated oligo as primer

<220>
<221> VARIANT
<222> 3, 9, 12, 15
<223> n = I (Inosine)

<400> 82
tcnatgcang tnccnccrtt

20

<210> 83
<211> 8
<212> PRT
<213> Drosophila

<400> 83
Phe Gly Phe Thr Trp Pro Gly Thr
1 5

<210> 84
<211> 7
<212> PRT
<213> Drosophila

<400> 84
Asn Gly Gly Thr Cys Ile Asp
1 5

<210> 85
<211> 12
<212> PRT

<213> Drosophila

<400> 85

Ser Ile Pro Pro Gly Ser Arg Thr Ser Leu Gly Val
1 5 10

<210> 86

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer 1 for PCR

<220>

<221> VARIANT

<222> 3, 9, 15, 18, 21

<223> n = I (Inosine)

<400> 86

ggnttcacnt ggccnggnac ntt

23

<210> 87

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer 2 for PCR

<220>

<221> VARIANT

<222> 3, 6, 18

<223> n = I (Inosine)

<400> 87

gtncncnccrt tytttrcangg rtt

23

<210> 88

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> EGF-like repeats encoded by SEQ ID NO. 87

<400> 88

Asn Pro Cys Lys Asn Gly Gly Thr
1 5

<210> 89

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> degenerated oligo primer

<220>

<221> VARIANT
<222> 3, 15, 18
<223> n = I (Inosine)

<400> 89
acnatgaaya ayctngcnaa ytg

23

<210> 90
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> amino acid encoded by SEQ ID NO. 89

<400> 90
Thr Met Asn Asn Leu Ala Asn Cys
1 5

<210> 91
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerated oligo primer

<220>
<221> VARIANT
<222> 6, 9, 21
<223> n = I (Inosine)

<400> 91
acrtanacng aytgrtaytt ng

23

<210> 92
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> amino acid sequence encoded by SEQ ID NO. 91

<400> 92
Thr Lys Tyr Gln Ser Val Tyr Val
1 5

<210> 93
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerated oligo

<220>
<221> VARIANT
<222> 6
<223> n = I (Inosine)

<400> 93
gcodatnacrc aytcrctcytt ytc

23

<210> 94
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> amino acid sequence endoced by SEQ ID NO. 86

<400> 94
Gly Phe Thr Trp Pro Gly Thr Phe
1 5

<210> 95
<211> 129
<212> PRT
<213> Gallus gallus

<220>
<223> chicken C-Delta-1

<400> 95
Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Ile
1 5 10 15
Ser Val Ile Gly Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Val Asp
20 25 30
Phe His Ser Asp Asn Ser Asp Lys Asn Gly Tyr Lys Val Arg Tyr Pro
35 40 45
Ser Val Asp Tyr Asn Leu Val His Glu Leu Lys Asn Glu Asp Ser Val
50 55 60
Lys Glu Glu His Gly Lys Cys Glu Ala Lys Cys Glu Thr Tyr Asp Ser
65 70 75 80
Glu Ala Glu Glu Lys Ser Ala Val Gln Leu Lys Ser Ser Asp Thr Ser
85 90 95
Glu Arg Lys Arg Pro Asp Ser Val Tyr Ser Thr Ser Lys Asp Thr Lys
100 105 110
Tyr Gln Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Ile Ile
115 120 125
Ala